

## ORGANIC FUEL CELLS AND FUEL CELL CONDUCTING SHEETS

### ABSTRACT OF THE DISCLOSURE

A passive direct organic fuel cell includes an organic fuel solution and is operative to produce at least  $15 \text{ mW/cm}^2$  when operating at room temperature. In additional aspects of the invention, fuel cells can include a gas remover configured to promote circulation of an organic fuel solution when gas passes through the solution, a modified carbon cloth, one or more sealants, and a replaceable fuel cartridge.